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# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

TI-36945

First Inventor

Muhammad Zubair Ikram

Title

A Hybrid IMMSE-LMMSE Receiver Processing Technique And Apparatus For A MIMO WLAN

Express Mail Label No.

ER640661564US

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents

1.  Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original, and a duplicate for fee processing)

2.  Applicant claims small entity status.  
See 37 CFR 1.27.

3.  Specification  
(preferred arrangement set forth below)

[ Total Pages

14 ]

- Descriptive title of the Invention
- Cross Reference to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table, or a computer program listing appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

4.  Drawing(s) (35 U.S.C. 113)

[ Total Sheets

1 ]

5. Oath or Declaration

[ Total Pages

1 ]

- a.  Newly Executed (original or copy)

- b.  Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)

i.  **DELETION OF INVENTOR(S)**

Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR  
1.63(d)(2) and 1.33(b).

6.  Application Data Sheet. See 37 CFR 1.76

**ADDRESS TO:**Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7.  CD-ROM or CD-R in duplicate, large table or  
Computer Program (Appendix)

8.  Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)

- a.  Computer Readable Form (CRF)

- b.  Specification Sequence Listing on:

- i.  CD-ROM or CD-R (2 copies); or

- ii.  Paper

- c.  Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9.  Assignment Papers (cover sheet & documents(s))

10.  37 CFR 3.73(b) Statement  
(when there is an assignee)

- Power of  
Attorney

11.  English Translation Document (if applicable)

12.  Information Disclosure  
Statement (IDS)/PTO-1449

- Copies of IDS  
Citations

13.  Preliminary Amendment

14.  Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)

15.  Certified Copy of Priority Document(s)  
(if foreign priority is claimed)

16.  Request and Certification under 35 U.S.C. 122  
(b)(2)(B)(i). Applicant must attach form PTO/SB/35  
or its equivalent.

17.  Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation Divisional Continuation-in-part (CIP)

of prior application No: \_\_\_\_\_ / \_\_\_\_\_

Group / Art Unit: \_\_\_\_\_

Prior application information: \_\_\_\_\_ Examiner: \_\_\_\_\_  
For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**

Customer Number or Bar Code Label



Correspondence address below

NAME: Texas Instruments Incorporated

ADDRESS:

CITY:

STATE:

TX

ZIP CODE:

COUNTRY:

TELEPHONE:

(972) 917-5633

FAX: (972) 917-4418

Name (Print/Type):

Dwight N. Holmbo

Registration No. (Attorney/Agent):

Reg. No. 36,410

Signature:

Date:

1/26/04

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

16834 U.S.P.T.O.  
10/765009

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# FEE TRANSMITTAL for FY 2004

Patent fees are subject to annual revision

TOTAL AMOUNT OF PAYMENT

(\$ 810.00)

## Complete If Known

Application Number	TBD
Filing Date	January 26, 2004
First Named Inventor	Muhammad Zubair Ikram
Examiner Name	TBD
Group Art Unit	TBD
Attorney Docket No.	TI-36945

## METHOD OF PAYMENT (check all that apply)

1.  The Commissioner is hereby authorized to charge to the following Deposit Account,

Deposit Account Number

20-0668

Deposit Account Name

Texas Instruments Incorporated

- Charge any additional fee required or credit any overpayment  Charge all indicated fees and any additional fee required or credit any overpayment

2.  Payment Enclosed:
 Check  Money Order  Other

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
1001	770	2001	385	Utility filing fee	\$770
1002	340	2002	170	Design filing fee	\$
1003	530	2003	265	Plant filing fee	\$
1004	770	2004	385	Reissue filing fee	\$
1005	160	2005	80	Provisional filing fee	\$
SUBTOTAL (1)					(\$)770.00

## 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

		Extra Claims	Fee from below	Fee Paid
Total Claims	11	-20** =	0	x 18 = 0
Independent Claims	2	-3** =	0	x 86 = 0
Multiple Dependent			290	= 0

\*\*or number previously paid, if greater; For Reissue, see below

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent Claims in excess of 3
1203	280	2203	140	Multiple dependent claims in excess of 3
1204	86	2204	43	**Reissue independent claims over original patent
1205	18	2205	9	**Reissue claims in excess of 20 and over original patent
SUBTOTAL (2)				(\$)0.00

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) \$40

Complete (if applicable)

SUBMITTED BY					
Typed or Printed Name	Dwight N. Holmbo			Reg. Number	36,410
Signature	Dwight N. Holmbo	Date	1/26/2004	Deposit Account User ID	N/A